

Abstract

A disklike rotor (4) is placed with air gaps between disklike stators (2, 3). The disklike rotor (4) has a sheet coil (6) attached to its sides, on which are formed the secondary coil pattern of a rotary transformer and a resolver excitation phase pattern. A sheet coil (5) having the secondary coil pattern of the rotary transformer is attached to the stator (2) opposed to the secondary coil pattern on the rotor, while a sheet coil (5) having a resolver detection phase pattern is attached to the stator (3) opposed to the resolver excitation phase pattern on the rotor. This resolver using a sheet coil is inexpensive and small-sized, decreases angular errors, and avoids the decrease in detection voltage. The variation in amplitude of flux linkage can be limited if there is misalignment of a sheet coil.

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